

Interactive Whiteboard

# RICOH Interactive Whiteboards with the Windows® 10-based Controller

D3210BK, D5520BK, D6510BK, D7500 and D8600BK



Remotely collaborate with laptops and mobile devices

No external computer required

Brilliant HD and 4K multi-touch screens

Available video-conferencing services

## Work smarter in groups

Empower your on-site and remote workers, clients or customers to become more engaged in real-time collaboration and meetings using our Interactive Whiteboards (IWBs) with Windows® 10-based Controllers. Our Windows® controller lets you use your preferred apps and cloud solutions such as Microsoft Office 365™ which includes Teams and Skype® for Business. Select from five models of IWBs — also known as Interactive Flat Panel Displays or IFPDs — with screen resolutions and sizes of HD 32" (D3210BK), HD 55" (D5520BK), HD 65" (D6510BK), 4K 75" (D7500), and 4K 86" (D8600BK). Bundle the IFPDs with our visual communication hardware, apps, cloud and business services for all-in-one audio-video communication solutions that can fully meet your business needs. Now, convert any area into a modern collaborative space where you can brainstorm ideas faster, conveniently manage complex projects and training. Transform your meetings and presentations into interactive experiences with touchscreen annotations, video communications and information sharing.

### Maximize engagement

Showcase important graphics or documents and convey your ideas clearly in crisp 1920 x 1080 HD resolution — or brilliant 3840 x 2160 4K resolution on the D7500 and D8600BK models that includes 10-bit processing of more than one billion colors. This helps your participants notice precise details and see lifelike quality. The anti-glare touchscreen with LED backlighting and deep contrast help to ensure that participants can see what is on the screen in almost any lighting condition. Use the IFPDs with their embedded controller to present and collaborate, or use the IFPDs as displays only and connect to input sources via VGA, HDMI, DVI-D or DisplayPort interfaces. Patented ShadowSense™ optical position-sensing technology (55" to 86" models only) allows you to easily switch between tasks, make natural drawings and handwritten annotations, zoom in and out and undo changes with incredible fingertip precision.



### Collaborate across your network

Whether your group is small or includes hundreds of participants, you can find the most effective and cost-efficient way to scale real-time collaboration on our IFPDs. If you choose to stay on your private network, you can add a collaborative license to our IWB Lt. software. This lets you connect with up to 19 additional IFPDs. Each licensed IFPD can connect to as many as 50 endpoints (laptops and mobile devices) for real-time, two-way collaboration. That means that you could install 20 licensed IFPDs on your network and interactively collaborate with up to 1,000 participants without adding an additional public cloud service fee. You can use the public cloud to collaborate and project manage via Microsoft Teams and Skype for Business, Google Hangouts®, Join.Me®, JIRA® and more solutions.



### Get started in a snap

Our IFPDs with Windows®-based controllers are network-ready out-of-box solutions. There's no need to connect the IFPDs to a dedicated computer to operate the display, or use expensive proprietary software with recurring maintenance fees. And, with their highly intuitive user experience, you can conveniently deploy the IFPDs at locations with limited or no IT support. You can also connect the IFPDs to Ricoh digital projectors to present and interactively collaborate with large groups. Ricoh IFPDs integrate seamlessly with Office 365™ so participants can share control of the presentation, make simultaneous edits and collaborate instantly with ease. In addition, you can bundle the 55" to 86" IFPDs with mobile stand to easily move them about your workplace.



# Easy to use

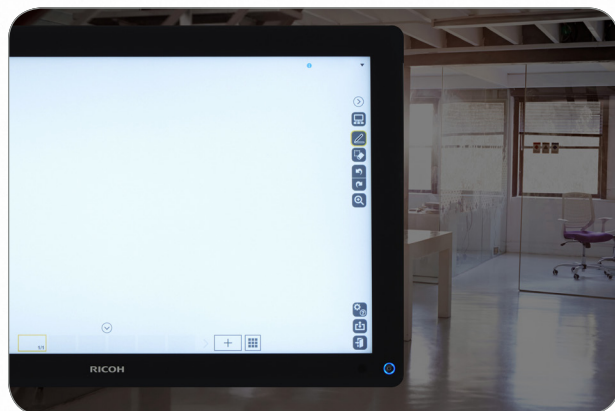
## Interact face-to-face

You can better engage remote participants when you can see their facial expressions and body language. That's why we offer optional videoconferencing hardware and software for our IFPDs to help you clearly communicate your ideas and get more work done faster. With our Windows®-based controller, you can choose to use the RICOH® UCS Advanced Service, Microsoft Teams or Skype for Business and other popular collaboration apps. Our optional UCS Service enables collaboration with large numbers of remote participants in many locations. And because our UCS Service takes up no more than 2 Mbps, you don't have to worry about interruptions due to limited bandwidth or slow network speeds. Use the RICOH® UCS Advanced Service, an open WebRTC solution, to let your remote participants easily join presentations or collaborate with you from any online mobile device, laptop or legacy videoconferencing equipment.



## Simplify your configuration

Our IFPDs with Windows®-based controllers are built from the ground up for integrated collaboration, rather than assembled from multiple pieces, such as when a mini PC is mounted onto a touchscreen monitor. Mounted mini PCs are at increased risk of theft and may also interrupt consistent performance, since they require video cables for connectivity — rather than the more reliable internal bus connections that link our embedded Windows®-based controller directly to its touchscreen display. Our completely integrated solution also helps you scale seamlessly. Add more of our IFPDs to your network without worrying about incurring more fees for ongoing IT maintenance, including updating of third-party management software.



## Get the most from your investment

For more than 80 years, we have helped enterprises maximize the ROI of their IT investments. As you transform your workspace to accommodate today's faster, more collaborative work styles, we want to partner with you step by step. Benefit from our expertise and 24/7 global customer support. You can even connect with a live technical specialist with one tap on the IFPD screen\*. Let us focus on keeping your collaboration technology ahead of the trends and providing the services to help you thrive in the information economy. We believe that relationships matter: wherever you deploy our IFPDs, our extensive network and optional business services will be there to help you reach your goals.

\*Check with your Ricoh representative for availability



To view detailed features of our products  
online go to [www.ricoh-usa.com/products](http://www.ricoh-usa.com/products)

# D3210BK / D5520BK / D6510BK / D7500 / D8600BK

## SYSTEM SPECIFICATIONS

Model	D3210BK	D5520BK	D6510BK	D7500	D8600BK
Panel size	32" (28.3" H x 16.3" V)	55" (48.5" H x 27.9" V)	65" (56.2" H x 31.6" V)	75" (65.9" H x 37.5" V)	86" (75.68" H x 43.03" V)
Display type/Backlight	Liquid Crystal Display (LCD)/ LED system				
Resolution	1,920 x 1,080 (HD)			3,840 x 2,160 (HD 4K)	
Color	16.7 million (8 bit color processing)			1.07 billion (10 bit color processing)	
Brightness	500 cd/m <sup>2</sup>	450 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	410 cd/m <sup>2</sup>	410 cd/m <sup>2</sup>
Aspect ratio	16:9				
Contrast ratio	3,000:1	1,100:1	4,000:1	1,200:1	1,200:1
Pixel pitch	0.364 x 0.364 mm	0.630 x 0.630 mm	0.744 x 0.744 mm	0.429 x 0.429 mm	0.4935 x 0.4935 mm
Response speed	< 10 milliseconds	12 milliseconds	8 milliseconds		12 milliseconds
Viewing angle (H/V)	Left and Right: 178° / Up and Down: 178°				
Display glass	2 mm thick anti-glare glass	3 mm thick anti-glare glass		4 mm thick anti-glare glass	
Touch sensor					
Technology	PCAP (Capacitive Touch)	Shadow Sense			Shadow Sense Gen 2.0
Maximum touch points	10 [When IWB software is active, max number of touch points is 4]				
Touch resolution	Not applicable to PCAP tech 1,920 x 1,080 (HD)				
Touch screen interface	USB 3.0 Type B located on side panel of D5520BK, D6510BK, D7500; located on rear panel of D3210BK and D8600BK				
Touch accuracy	+/- 2 mm (over 90% area)	+/- 6.5 mm (over 90% area)			+/- 2 mm (over 90% area)
Operating system support	Multi-touch (up to 10): Windows <sup>®</sup> 7, 8.1, 10 Single Touch: Windows <sup>®</sup> 7, Mac <sup>®</sup> OS 10.8+				
<b>General</b>					
Video input	Mini D-Sub 15-pin (VGA) x 1, HDMI x 1 (HDCP compliant), DVI-D x 1 (HDCP compliant; Not available on D3210BK), DisplayPort x 1 (HDCP compliant), USB 2.0 Type A (for video device power supply only)				
Video output	DisplayPort x 1				
Audio input / output	In: 3.5 mm Line in Jack x 1 (For VGA, DVI) Out: +/- Speaker Terminals x 1 pair				
External USB Device Interfaces	USB 3.0 Type A x 4 (Self-powered 7.5 W)	USB 2.0 Type A x 4 and USB 3.0 Type A x 4			
Display control	RS-232c x 1 (Input), RS-232c x 1 (Output)				
Dimensions (W x D x H)	31.0" x 2.75" x 18.9" (789 x 70 x 480 mm)	52.9" x 4.7" x 30.3" (1,345 x 119 x 770 mm)	60.9" x 6.0" x 34.9" (1,546 x 154 x 888 mm)	70.2" x 7.8" x 41.5" (1,783 x 198 x 1,055 mm)	78.97" x 4.96" x 47.24" (2,009 x 126 x 1,200 mm)
Weight	33 lbs. (15 kg)	101.4 lbs. (46 kg)	132.3 lbs. (60 kg)	205.0 lbs. (93 kg)	268.4 lbs. (122 kg)
Power source	AC 100 – 240 V / 50 – 60 Hz				
Power consumption operating / standby	< 215 W / < 0.3 W	< 255 W / < 0.5 W	< 350 W / < 0.5 W	< 420 W / 0.5 W	< 510 W / < 0.5W
Advanced display features	RS232 Control Daisy Chain, Picture Mode (including Low Blue Light mode), Backlight, Adaptive Contrast (Dimming Control), Brightness, Chroma, Phase, Sharpness, Color Temperature, Treble, Bass, Balance, Volume, Mute, Speaker, Audio Source, Picture-in-Picture, Picture-by-Picture, Aspect, Adjust Screen, Touch Feature, Language, Power Save, Quick Start Mode*, Control Setting, Touch Control Setting, Set Monitor ID, Advanced Features, Information *D8600BK and D3210BK only				
Remote sharing function	Up to 20 interactive whiteboards and projector systems. Up to 50 remote devices (iOS <sup>®</sup> , Android <sup>®</sup> and Windows <sup>®</sup> ) per interactive whiteboard*				
Remote PC operation	Yes**				
Bluetooth	Supported, v2.1+EDR V3.0/V4.0				
<b>Windows 10 i5 Controller</b>					
CPU	Intel <sup>®</sup> Core i5 6500TE @ 2.3 GHz				
Operating System	Windows 10 Professional - 64 bit				
Hard Disk Drive	500 GB				
RAM	16 GB				
<b>Windows 10 i7 (OP-10) Controller</b>					
CPU	Intel <sup>®</sup> Core i7 6700TE @ 2.4 GHz				
Operating System	Windows 10 Professional - 64 bit				
Solid State Drive	512 GB SSD				
RAM	16 GB				
<b>Options</b>					
IWB Stands	Type 1	Type 2 BK	Type 3 BK	Type 4	Type 4 BK
IWB Capture Box Type 1	Enables IFPDs configured with a Windows 10 controller to import and save images from external devices for annotation				
Web/videoconferencing options	Built-in Speakers: 8W x 2 (Stereo), Built-in Microphone: None, Video Camera: Optional, Logitech recommended	Built-in Speakers: 12W x 2 (Stereo), Built-in Microphone: 58dB S/N Ratio, Video Camera: Optional, Logitech recommended	Built-in Speakers: 12 W x 2 (Stereo), Built-in Microphone: 58dB S/N Ratio, Video Camera: Optional, Logitech recommended	Built-in Speakers: 12 W x 2 (Stereo), Built-in Microphone: 58dB S/N Ratio, Video Camera: Optional, Camera Unit Type 1	Built-in Speakers: 12 W x 2 (Stereo), Built-in Microphone: None, Video Camera: Optional, Logitech recommended
Item	EDP Code		Item	EDP Code	
RICOH Interactive Whiteboard D3210BK	432424		IWB Desktop Stand (for D3210BK)	755213	
RICOH Interactive Whiteboard D5520BK	432444		IWB Stand Type 2 BK (for D5520BK)	432448	
RICOH Interactive Whiteboard D6510BK	432445		IWB Stand Type 3 BK (for D6510BK) [2 boxes, must order both EDP Codes]	432449 & 432450	
RICOH Interactive Whiteboard D7500	432224		IWB Stand Type 4 (for D7500) [2 boxes, must order both EDP Codes]	432261 & 432262	
RICOH Interactive Whiteboard D8600BK	432447		IWB Stand Type 4 BK (for D8600BK) [2 boxes, must order both EDP Codes]	432451 & 432452	
Windows 10 i5 Controller	432308		RICOH IWB Remote License Type 1	431128	
Windows 10 i7 (OP-10) Controller	432436		RICOH IWB Touch Pen Type 2 (for D3210BK only)	755219	
RICOH IWB Capture Box Type 1	432430		Pen and Eraser Kit (55"- 86") [IWB firmware v. 11 or higher]	SDW-KIT	
RICOH IWB Camera Unit Type 1	432221		Logitech Wireless Keyboard/Touchpad	920-008357	

Disclaimer: Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. USB with security or anti-virus software installed are not compatible. Remote sharing function requires Remote License. Remote License is required for collaborative meetings. For wall mounting, use a standard VESA mount (not supplied by Ricoh). Via intranet, required line speed: Min. 200Kbps, recommended over 512Kbps. For availability of models, options and software, please consult your local Ricoh supplier. \*When using licensed IWB Lt software. \*\*Using USB Type B and Video Input Connection.



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